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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/792,222	03/03/2004	Walter L. Moden	3389.8US (97-0638.08/US) 4777	
24247 7	590 06/10/2005		EXAMINER	
TRASK BRITT P.O. BOX 2550			TRINH, MINH N	
SALT LAKE CITY, UT 84110			ART UNIT	PAPER NUMBER
			3729	

DATE MAILED: 06/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summary		10/792,222	MODEN ET AL.			
		Examiner	Art Unit			
		Minh Trinh	3729			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)🖂	Responsive to communication(s) filed on <u>07 A</u>	oril 2005.	·			
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3)	· · · · · · · · · · · · · · · · · · ·					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠	Claim(s) <u>1-4</u> is/are pending in the application.					
	4a) Of the above claim(s) 4 is/are withdrawn from consideration.					
5)□	5) Claim(s) is/are allowed.					
6)⊠	☑ Claim(s) <u>1-3</u> is/are rejected.					
7)	')□ Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	r election requirement.				
Applicat	ion Papers		•			
9)[The specification is objected to by the Examine	r.				
10)	The drawing(s) filed on is/are: a) acce	epted or b) objected to by the I	Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority (under 35 U.S.C. § 119					
_	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:		-(d) or (f).			
	1. Certified copies of the priority documents					
	2. Certified copies of the priority documents					
	3. Copies of the certified copies of the prior	•	o in this National Stage			
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Cooking attached detailed Office action for a list of the Certified copies flot received.						
Λ 						
Attachmen 1) Notice	र(s) e of References Cited (PTO-892)	4) Interview Summary	(RTO 413)			
	e of Praftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da				
3) 🔲 Inform	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) ☐ Notice of Informal P 6) ☐ Other:	atent Application (PTO-152)			
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DETAILED ACTION

1. The amendment filed on 4/7/2005 has been fully considered and made of record.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- 3. The title of the invention is required to be changed to reflect the method invention to which the claims are directed.
- 4. The abstract should have been modified to read on the method invention.
- 5. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Palagonia (5,604,377) in view of Nishino (5,343,075)

Palagonia discloses a method of the present invention comprising steps: providing a cage 11 enclosing at least two adjacent sides of the plurality sides of each primary integrated circuit package (PICP) 10 or 12 of the stacked plurality of PICP's 10 or 12 (see Figs. 1-3, and 6 and the discussion at col. 2, lines 35-40); attaching the cage 11 to the substrate 18, 31 (see Figs. 2, 6). Palagonia is silent regarding the connecting at least one outer lead to the plurality of outer leads of the stacked plurality of PICP's to at least one conductive bus of a plurality of spaced traverse conductive buses. However, Nishino discloses the step as described above where at least one outer lead to the plurality of outer leads of PICP's being connected to at least one

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conductive bus of a plurality of spaced traverse conductive buses 7 of the flexible PCB 8 (see Figs. 1-3). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the Nishino's teaching as discussed above onto the method invention of Palagonia in order to obtain a desired semiconductor device including configuration requirements as so to increase the number of bits of the data bus.

Response to Arguments

- 6. In view of applicant's filing of Terminal Disclaimers dated (4/07/05), the previous double patenting rejections of claims 1-3 has been overcome.
- 7. Applicant's arguments with respect to claims 1-3 have been considered but are moot in view of the new ground(s) of rejection.

Interviews After Final

8. Applicant notes that an interview after a final rejection will not be granted unless the intended purpose and content of the interview in presented briefly, in writing (the agenda of the interview must be in writing). Such an interview may be granted if the examiner is convinced that disposal or clarification for appeal may be accomplished with only nominal further consideration. Interviews merely to restate arguments of record or to discuss new limitations which would require more than nominal reconsideration or new search will be denied. See MPEP 714.13 and 713.09.

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Prior Art References

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Prior art references are cited for their teaching of a method for forming stacked IC packages or the like.

Conclusion

- 10. It is noted that any amendment made to the disclosure and the claims. Applicant requires to point out the support provide numeral references to the claimed limitations as well as support in the disclosure (i.e., page and line numbers and reference number associated with from the drawings) for better clarity (See 37CFR 1.111 and section 2163.06 of the MPEP).
- 11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Trinh whose telephone number is (571) 272-4569. The examiner can normally be reached on Monday -Thursday 8:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (571) 272-4690. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mt, 6/6/05

Primary Examiner